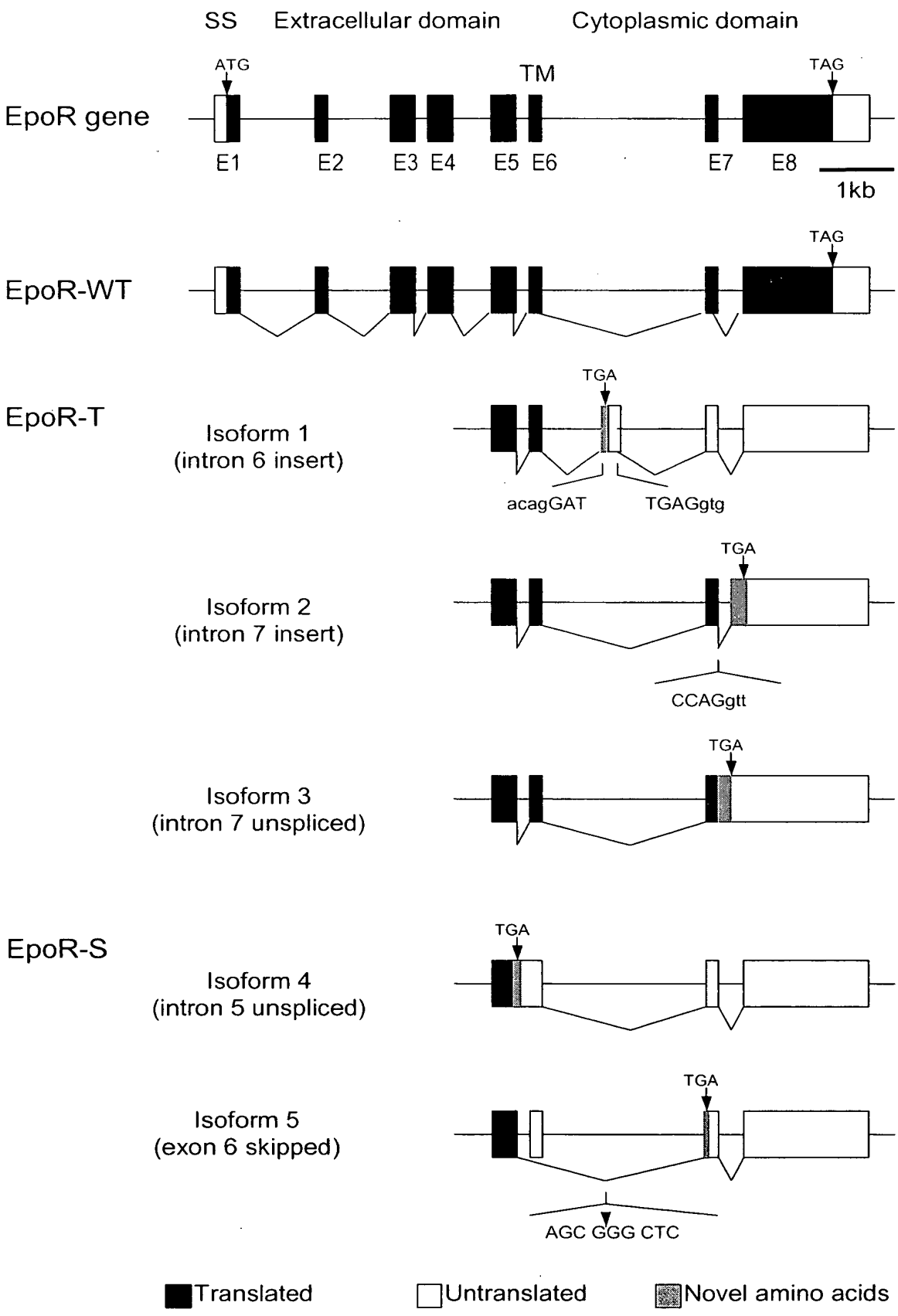
SS
Extracellular domain
Cytoplasmic domain
ATG
TM
TAG
EpoR gene
E1
E2
E3 E4
E5 E6
E7
E8
1kb
EpoR-WT
TAG
EpoR-T
Isoform 1
(intron 6 insert)
TGA
acagGAT
TGAGgtg
Isoform 2
(intron 7 insert)
TGA
CCAGgtt
Isoform 3
(intron 7 unspliced)
TGA
EpoR-S
Isoform 4
(intron 5 unspliced)
TGA
Isoform 5
(exon 6 skipped)
TGA
AGC GGG CTC
Translated
Untranslated
Novel amino acids

FIGURE 1

Intron 6 insert (Isoform 1)

exon 6 ← intron 6 insert

... CAC CGC CGg atg gtc agg gaa ggc tcc agg agg agg tga cat cag agt gga aac

His Arg Arg **Met Val Arg Glu Gly Ser Arg Arg Arg** End

ctg aag att gga agg aag cag ccg ctt gaa aag tgg gga gaa gaa aca gca agt gca

→ exon 7

aag gcc ctg agG GCT CT ...

Intron 7 insert (Isoform 2)

exon 7 ← intron 7 insert → exon 8

...GGT AAC TTC CAG gtt ggt gct att tct tca gCT GTG GCT GTA CCA GAA TGA ...

Gly Asn Phe Gln **Val Gly Ala Ile Ser Ser Ala Val Ala Val Pro Glu** End

Intron 7 unspliced (Isoform 3)

exon 7 ← intron 7

...TTC CAG gta ggt ggc ctg gtt gtc ccc tca gtg cct ggg ctt ccc tgc ttc ttg cag cca

Phe Gln **Val Gly Gly Leu Val Val Pro Ser Val Pro Gly Leu Pro Cys Phe Leu Gln Pro**

→ exon 8

aac tgc agg cct ctc tga gca ggt tgg tgc tat ttc ttc agC TGT GGC TGT ...

Asn Cys Arg Pro Leu End

Intron 5 unspliced (Isoform 4)

exon 5 ← intron 5

...CCT AGC Ggt gag gcc cca ggc ggg ggt gta gga gga gcc agg gcg aat cac ggg

Pro Ser **Gly Glu Ala Pro Gly Gly Gly Val Gly Gly Ala Arg Ala Asn His Gly**

→ exon 6

gca agc cca ccg ccc tga cct cct ccc cgc ctc tta gAC CTG ...

Ala Ser Pro Pro Pro End

Exon 6 skipped (Isoform 5)

exon 5 ← → exon 7

... ACG CCT AGC GGG CTC TGA AGC AGA ...

Thr Pro Ser **Gly Leu** End

FIGURE 2